

Rev06
Update: Sep,11,2025

DATASHEET

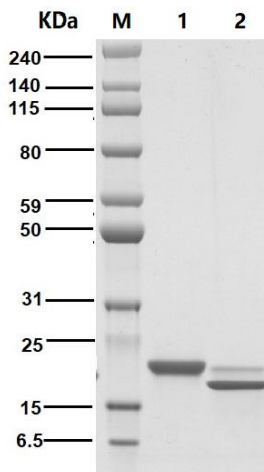
LIF, Bovine

Cat. No.: Z03802

Product Introduction

Species	Bovine
Protein Construction	LIF (Ser23-Phe202) Accession # Q27956
Purity	≥ 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	ED50 < 0.2 ng/ml, measured by a cell differentiation assay using TF-I cells, corresponding to a specific activity of > 5.0 × 10 ⁶ U/mg.
Expression System	<i>E.coli</i>
Theoretical Molecular Weight	19.9 kDa
Apparent Molecular Weight	~ 20.2 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized from a 0.2 μm filtered solution in 1×PBS, pH 7.4
Reconstitution	Before opening, centrifuge the vial briefly to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O up to 100 μg/ml
Storage & Stability	Upon receiving, this product remains stable for 6 months at -20°C or below. Upon reconstitution, the product should be stable for 1 week at 4°C or for 3 months at -20°C. Avoid repeated freeze-thaw cycles.

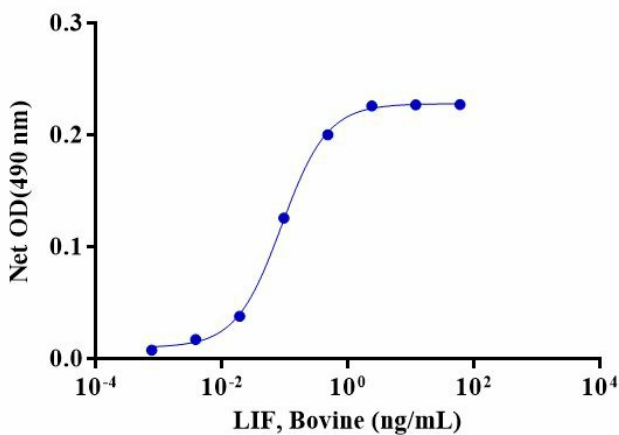
Examples



Lane 1: 2 μ g of LIF, Bovine under reducing condition (R)

Lane 2: 2 μ g of LIF, Bovine under non-reducing condition (NR) (N)

The purity is greater than 95% as analyzed by SDS-PAGE



ED₅₀ < 0.2 ng/ml, measured by a cell differentiation assay using TF-I cells, corresponding to a specific activity of > 5.0 × 10⁶ units/mg.

Background

Target Background : LIF has the capacity to induce terminal differentiation in leukemic cells. Its activities include the induction of hematopoietic differentiation in normal and myeloid leukemia cells, the induction of neuronal cell differentiation, and the stimulation of acute-phase protein synthesis in hepatocytes (By similarity).

Synonyms : LIF

For research use only. Not intended for human and animal therapeutic or diagnostic use.

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